

What Is Claimed Is:

1. An ultrasonic treatment device comprising:

an ultrasonic probe for treating living-body tissue by transmitting thereto ultrasonic vibrations generated by means of an ultrasonic transducer;

a manipulating section main body at a fixed side wherein the ultrasonic probe is inserted and arranged at the distal end thereof;

a moveable jaw, arranged opposite to the ultrasonic probe, that grips living-body tissue with the ultrasonic probe, and that is freely rotatably supported at the peripheral surface of the manipulating section main body; and

a moveable handle linked with the moveable jaw for opening/closure operation of the moveable jaw with respect to the ultrasonic probe and freely rotatably supported at the peripheral surface of the manipulating section main body,

wherein the moveable jaw and the moveable handle are arranged on the same side with respect to the longitudinal central axis of the manipulating section main body.

2. The ultrasonic treatment device according to claim 1 comprising a drive circuit for driving the ultrasonic transducer.

3. The ultrasonic treatment device according to claim 2, wherein the drive circuit comprises a changeover unit that performs control that, on commencement of ultrasonic treatment, sets the ultrasonic output from the ultrasonic transducer to be larger than a set value set by a setting switch and that, when a pre-set prescribed time has elapsed after commencement of ultrasonic treatment, makes the ultrasonic output from the ultrasonic transducer to be a set value.

4. The ultrasonic treatment device according to claim 1, wherein the ultrasonic treatment device is separable into three units, namely: a handle unit comprising a sheath and a manipulating section main body formed at the proximal end of the sheath, a moveable jaw and a moveable handle; an ultrasonic probe unit; and a transducer unit internally having an ultrasonic transducer, and the ultrasonic treatment device is constituted so as to assemble the three units by incorporating the probe unit into the transducer unit and incorporating the transducer unit internally having the probe unit into the manipulating section main body of the handle unit.

5. The ultrasonic treatment device according to claim 4, wherein a fixed handle is provided at the periphery of the manipulation section main body.

6. The ultrasonic treatment device according to claim 1, constructed such that the moveable jaw is closed with respect to the ultrasonic probe by closure operation of the moveable handle.

7. The ultrasonic treatment device according to claim 1, wherein the moveable handle is rotatably supported by a pivot shaft at the peripheral surface of the manipulating section main body and the distal end of the moveable handle is linked by a cam mechanism or link mechanism with the proximal end of the moveable jaw.

8. The ultrasonic treatment device according to claim 4, wherein the probe unit comprises an elongated substantially rod-shaped vibration transmitting member and the moveable jaw comprises a gripping member at the distal end thereof and the gripping surface of the gripping member and the treatment portion of the vibration transmitting member are brought into contact at respective arcuate curved surfaces thereof.

9. The ultrasonic treatment device according to claim 8, wherein the gripping member and the treatment portion of the vibration transmitting member are formed so as to make contact over a wide area.

10. The ultrasonic treatment device according to claim 8, wherein the gripping member is formed by low-friction material.

11. The ultrasonic treatment device according to claim 1, further comprising a vibration transmitting member that transmits ultrasonic vibrations generated by the ultrasonic transducer to the ultrasonic probe, and a sheath that covers the vibration transmitting member,

wherein the proximal end of the moveable jaw is formed in a substantially arcuate cross-sectional shape and the distal end of the sheath is formed in substantially arcuate cross-sectional shape so as to match the proximal end of the moveable jaw, the vibration transmitting member being arranged in a space between the moveable jaw and the sheath.

12. An ultrasonic treatment device comprising:

a vibration transmitting member connected to an ultrasonic transducer, for transmitting ultrasonic vibrations generated by the ultrasonic transducer to the distal end thereof;

an ultrasonic probe connected to the distal end of the vibration transmitting member, for treating living-body tissue by means of ultrasonic vibrations transmitted from the vibration transmitting member;

a sheath that covers the vibration transmitting member;

a fixed manipulating section main body arranged at the proximal end of the sheath and in which the ultrasonic probe is inserted and arranged;

a moveable jaw that grips living-body tissue with the ultrasonic probe, being arranged opposite to the ultrasonic probe and being freely rotatably supported on the peripheral surface of the manipulating section main body; and

a moveable handle linked with the moveable jaw for opening/closure operation of the moveable jaw with respect to the ultrasonic probe and freely rotatably supported at the peripheral surface of the manipulating section main body;

wherein while the proximal end of the moveable jaw is formed in substantially arcuate cross-sectional shape and the distal end of the sheath is formed in substantially arcuate cross-sectional shape so as to match the proximal end of the moveable jaw and the vibration transmitting member is arranged in a space between the sheath and moveable jaw, the moveable jaw and the moveable handle are arranged on the same side with respect to the longitudinal central axis of the manipulating section main body.

13. The ultrasonic treatment device according to claim 12, further comprising a drive circuit for control drive of the ultrasonic transducer.

14. The ultrasonic treatment device according to claim 13, wherein the drive circuit comprises a changeover unit that performs control that, on commencement of ultrasonic treatment, sets the ultrasonic output from the ultrasonic

transducer to be larger than a set value set by a setting switch and that, when a pre-set prescribed time has elapsed after commencement of ultrasonic treatment, makes the ultrasonic output from the ultrasonic transducer to be a set value.